

## TRANSCRIPT FOR: METRICS FOR TRANSFORMATIVE RESEARCH AWARD

**EDMUND TALLEY:** THANKS, RAVI. IN RESPONSE TO THE QUESTION OF WHAT KINDS OF RESEARCH HAS BEEN FUNDED OVER THE LAST THREE YEARS OF TRANSFORMATIVE RESEARCH AWARDS, I THINK THE FIRST ANSWER IS THAT THERE'S A VERY LARGE DIVERSITY. AND IN ORDER TO SEE THIS AT THE LEVEL OF THE INDIVIDUAL GRANT, IT'S USEFUL TO GO TO THE NIH COMMON FUND WEB SITE, TO THE LINK THAT WE'VE PUT UP HERE ([HTTP://COMMONFUND.NIH.GOV](http://commonfund.nih.gov)), WHERE, ALL OF THE GRANTS ARE LISTED ACCORDING TO YEAR, AND WITH LINKS TO NIH REPORTER THAT GIVE THE TITLE AND ABSTRACT AND SIZE OF THE AWARDS. WE'RE ALSO GOING TO GIVE YOU SOME INFORMATION, TODAY, THAT DESCRIBES THE NATURE OF THE DISTRIBUTION OF GRANTS IN TERMS OF RESEARCH TOPICS. I'M GOING TO SHOW YOU THAT ON THE NEXT SLIDE.

SO, THERE ARE TWO PANELS HERE ON THIS SLIDE, AND ON THE RIGHT-HAND SIDE, IT SHOWS THE NIH INSTITUTES THAT MANAGE THESE RESEARCH AWARDS. SO THE APPLICATIONS COME IN CENTRALLY, AND THEN ONCE THEY'RE AWARDS, THE NIH INSTITUTES MANAGE THESE GRANTS ACCORDING TO THE AREA OF RESEARCH. FOR EXAMPLE, I'M FROM THE NATIONAL INSTITUTE OF NEUROLOGICAL DISORDER AND STROKE (NINDS) AND NINDS PROGRAM DIRECTORS ACT AS LIAISONS AND CONTACTS FOR INVESTIGATORS FOR THE TRA AWARDS THAT ADDRESS NEUROSCIENCE AND NEUROLOGY TOPICS. WHAT YOU CAN SEE IS THE BROAD RANGE OF NIH INSTITUTES THAT MANAGE THESE GRANTS. THE NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES (NIGMS) PROGRAM DIRECTORS MANAGE THE MAJORITY OF THE AWARDS TO-DATE. NIGMS IS RESPONSIBLE FOR BASIC RESEARCH THAT'S RELEVANT TO MANY NIH INSTITUTES, BUT THEN FROM THERE, RESEARCH ON DIGESTIVE DISORDERS AND KIDNEY DISEASE, RESEARCH ON THE IMMUNE SYSTEM AND INFECTION DISEASES, RESEARCH ON CANCER, ETC, ETC. NOW ON THE LEFT WHAT'S SHOWN HERE IS A CLUSTER MAP OF AWARDS. IN THE BACKGROUND, THE SMALL DOTS ARE ALL NIH AWARDS FROM FISCAL YEAR 2011, AND THEY'RE COLOR-CODED USING THE SAME COLORS OF THE NIH INSTITUTES THAT ARE SHOWED ON THE RIGHT. THIS MAP IS AVAILABLE AT NIHMAPS.ORG AND IF YOU WANT MORE INFORMATION ABOUT IT, YOU CAN GO TO THAT LINK AND READ UP ON WHAT IT'S ABOUT AND SEARCH FOR INDIVIDUAL GRANTS AND GROUPS OF GRANTS. WHAT YOU NEED TO KNOW HERE IS THAT THE GRANTS ARE ORGANIZED ACCORDING TO RESEARCH AREA. SO IF YOU LOOK ON THE FAR LEFT OF THIS LAYOUT ARE GRANTS ON BIOLOGICAL CHEMISTRY AND ON CELL BIOLOGY, AND IN THE LOWER LEFT CORNER, INFECTIOUS DISEASES AND MICROBIOLOGY. IN THE UPPER RIGHT CORNER, NEUROSCIENCE AND THEN FURTHER RIGHT, SYSTEMS NEUROSCIENCE. WHAT WE'VE DONE IS QUERIED THIS LAYOUT FOR THE TRANSFORMATIVE AWARDS FROM THE LAST THREE YEARS AND WHAT YOU CAN SEE IS THAT THE AWARDS FALL IN ALL DIFFERENT AREAS OF NIH-FUNDED RESEARCH.

NOW, JUST TO GIVE YOU A LITTLE BIT MORE DETAIL ON WHAT THIS LOOKS LIKE AT THE LEVEL OF THE INDIVIDUAL GRANT, WHAT WE'VE DONE HERE IS JUST TO SHOW YOU THE NEUROSCIENCE FOCUSED AWARDS THAT FALL ON UPPER RIGHT-HAND CORNER OF THE LAYOUT. ON THE RIGHT-HAND SIDE OF THE SLIDE, WE'VE LISTED THESE GRANTS. YOU CAN SEE THERE'S A VERY DIVERSE SET OF PROJECTS THAT FOCUS ON NEUROSCIENCE AND NEUROLOGY AND MENTAL HEALTH DISORDERS. THE GRANTS ARE

COLOR-CODED BY THEIR TOPIC WHICH IS A STATISTICALLY-EXTRACTED ENTITY THAT'S REPRESENTED BY THE TOP WORDS LISTED ALONG THE LINES. NOW, ONE QUESTION THAT WE'VE GOTTEN HAS TO DO WITH "HOW MUCH CLINICAL RESEARCH AND HOW MUCH BEHAVIORAL/SOCIAL RESEARCH FUNDED BY THIS PROGRAM?" THAT'S WHAT THE LAST SLIDE ADDRESSES. WHAT'S SHOWN HERE ARE THE PROJECTS THAT ARE CODED FOR HUMAN SUBJECTS RESEARCH, AND WHAT YOU CAN SEE IS THAT THOSE ALSO FALL ACROSS THE SPECTRUM OF NIH-FUNDED RESEARCH. NOW "HUMAN SUBJECT" IN THE THIS CASE MAY INCLUDE CELLS FROM PATIENTS, BUT I THINK IT GIVES A GOOD INDICATION THAT HUMAN SUBJECTS RELATED RESEARCH IS NOT FOCUSED SOLELY ON CLINICAL RESEARCH OR ON BASIC RESEARCH. THERE'S A LOT OF DISEASE-ORIENTED RESEARCH AND THERE IS PLENTY OF CLINICAL RESEARCH, AND, ALTHOUGH THERE'S NOT AS MUCH, THERE ALSO ARE PROJECTS THAT ARE FOCUSED ON SOCIAL AND BEHAVIORAL RESEARCH AND WE'VE LISTED THOSE ON THE RIGHT-HAND SIDE. SO, ONCE AGAIN, THE TAKE-HOME MESSAGE IS THAT THERE'S A FULL DIVERSITY OF AWARDS FROM THIS TRANSFORMATIVE PROGRAM, AND IT REPRESENTS RESEARCH THAT SPANS THE DIVERSITY OF NIH-FUNDED GRANTS.